

## Master thesis observation notes

### Coding Scheme for behavior:

Response category	Response type	Response behavior
Attraction	1: Interact	Stop and interact with the robot
Attraction	2: Watch	Stop and observe the robot
Attraction	3: Curious	Observe the robot while slowing walking speed
None	4: Ignore	No change in travel other than ensuring not running into the robot
Repulsion	5: Cautious	Travel to avoid the robot using a medium path deviation
Repulsion	6: Avoid	Travel to avoid the robot using a large path deviation

### Coding scheme for other information:

**Composition:** A= Adult C= Child  
**Gender:** M= Male F= Female  
**Est. Age:** number  
**Pet:** “dog” or none  
**Comments:** Other details worth noting

## **DAY 1 (Pilot)**

**Date: 01-11-2021 (Monday)**

**Control Condition**

**Time: 12:00 - 13:30**

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**Behavior - Composition - Gender - Estimated age - Pet ++ Comments**

3 - AA - MF - 30+ - none ++

4 - A - F - 70+ - none ++

4 - AA - FF - 30+ - none ++

2 - A - M - 50+ - none ++ Took a photo of the robot

4 - A - F - 70+ - none ++

4 - AA - MF - 60+ - none ++

4 - AA - MF - 70+ - none ++

4 - AA - FF - 70+ - none ++

3 - A - F - 30+ - none ++

2 - A - M - 60+ - none ++ The man was walking while pulling a garbage bin with him

4 - AA - MF - 30+ - none ++

4 - AA - MF - 30+ - none ++

2 - AA - MF - 50+ - none ++

3 - AA - MM - 30+ - none ++

5 - A - M - 30+ - none ++

2 - A - M - 40+ - none ++ Man got agitated and after looking around for a while he spotted me and shouted: "Is this robot yours??", to which I replied "Yes". Then he said "Am I being recorded??" I walked up to him and told him he was not being recorded and explained my experiment. Although calming down he made clear that he was VERY displeased to

encounter a robot with cameras mounted on it and that I was NOT allowed to be there. He even mentioned that “someone” might get angry and throw the robot into the creek nearby.

4 - AA - FF - 50+ - none ++

3 - A - F - 60+ - dog ++

2 - A - M - 50+ - none ++

4 - AA - FF - 25+ - none ++

2 - AA - MM - 30+ - none ++

4 - AA - FF - 30+ - none ++

3 - AA - MF - 40+ - none ++

3 - AA - MF - 40+ - none ++

4 - AA - FF - 70+ - none ++

4 - AA - FF - 30+ - none ++

4 - A - M - 70+ - none ++

3 - A - F - 40+ - none ++

4 - A - M - 40+ - dog ++

3 - A - M - 40+ - none ++

1 - AA - MF - 40/70 - none ++ Female had a walker; Man bent over to look at robot and touched it

1 - AA - MF - 30+ - none ++ Female had crutches; Man bent over and touched the side of the robot

## DAY 2

Date: 05-11-2021 (Friday)

Garbage bot condition

Time: 12:30 - 14:00

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**Behavior - Composition - Gender - Estimated age - Pet ++ Comments**

4 - A - M - 50+ - none ++

3 - AA - MF - 40+ - none ++

3 - A - M - 30+ - none ++

4 - AA - FF - 60+ - none ++

3 - AAA - MMF - 35/35/60 - dog ++

4 - AA - MF - 50+ - none ++

3 - AA - MF - 30+ - none ++

3 - AA - MF - 30+ - none ++

4 - A - M - 30+ - none ++

3 - A - M - 30+ - none ++

4 - A - F - 30+ - none ++

3 - A - F - 50+ - none ++

3 - AAA - MMF - 35+ - none ++

4 - AA - MF - 60+ - dog ++

3 - AA - MF - 35+ - none ++

4 - AA - MF - 60+ - dogs ++

3 - AA - MF - 60+ - none ++

3 - AA - MF - 35+ - none ++

4 - AA - FF - 35+ - none ++

3 - AA - MM - 35+ - none ++

3 - AA - MM - 50+ - none ++

3 - AAA - MMF - 35+ - none ++

3 - AA - MM - 25+ - none ++

4 - A - M - 45+ - dog ++

3 - AA - MM - 45+ - none ++

3 - AAAAA - MMFFM - 50+ - none ++

### DAY 3

Date: 08-11-2021 (Monday)

Control condition

Time: 12:15 - 13:45

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**Behavior - Composition - Gender - Estimated age - Pet ++ Comments**

2 - AA - MF - 70+ - none ++

4 - AA - MF - 30+ - none ++

2 - AAA - FFF - 60+ - none ++

4 - AA - MF - 35+ - none ++

4 - A - F - 30+ - none ++

3 - A - M - 50+ - none ++

2 - AA - MF - 70+ - none ++

4 - AA - FF - 40/60 - none ++

3 - AA - MF - 30+ - none ++

4 - AA - MF - 70+ - dog ++

3 - AACC - MFMMF - 35/35/8/8/8 - none ++ Child shouted "let's destroy it! While holding a stick in his hand".

2 - AA - MF - 25+ - none ++

3 - AA - MF - 70+ - none ++

2 - AA - MF - 45+ - none ++

3 - A - M - 45+ - none ++

4 - AA - MF - 45+ - dog ++

4 - AA - MF - 40+ - dog ++

4 - AA - FF - 40+ - none ++

2 - AA - FF - 50+ - none ++

## DAY 4

Date: 09-11-2021 (Tuesday)

Garbage bot condition

Time: 12:25 - 13:55

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**Behavior - Composition - Gender - Estimated age - Pet ++ Comments**

4 - A - M - 35+ - none ++

2 - A - M - 35+ - none ++ took photo

4 - A - F - 35+ - none ++

4 - A - M - 50+ - none ++

4 - AA - MF - 35+ - none ++

4 - A - F - 65+ - none ++

4 - AA - FF - 65+ - none ++

4 - A - M - 45+ - none ++

4 - AA - MM - 50+ - none ++

4 - A - M - 50+ - none ++

4 - A - F - 50+ - none ++

4 - A - F - 50+ - none ++

2 - AA - MF - 30/60 - none ++ Walked with bike in hand

4 - A - M - 30+ - none ++

4 - AA - MF - 30/60 - none ++

4 - AA - MF - 25+ - none ++

4 - A - F - 45+ - dog ++

4 - AA - FF - 65+ - none ++



## DAY 5

Date: 10-11-2021 (Wednesday)

Control condition

Time: 12:05 - 13:35

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**Behavior - Composition - Gender - Estimated age - Pet ++ Comments**

4 - A - M - 25+ - none ++

4 - A - F - 25+ - none ++

3 - AA - MF - 35+ - none ++

1 - C - M - 7+ - none ++ Poked the robot with a small stick

3 - AA - MF - 35+ none ++

4 - AA - MF - 35+ - none ++

4 - AA - MF - 45+ - none ++

4 - AA - FF - 50+ - dog ++

4 - AA - MF - 50+ - none ++

3 - AA - MF - 40+ - none ++

4 - AA - MF - 30+ - none ++

4 - A - F - 50+ - none ++

4 - A - F - 70+ - none ++

4 - A - F - 25+ - none ++

2 - AA - FF - 25+ - none ++

4 - A - F - 25+ - none ++

3 - AA - MF - 50+ - none ++

2 - AA - MF - 40+ - none ++

4 - AA - MF - 60+ - none ++

4 - AA - MM - 60+ - none ++

4 - AA - MF - 40+ - none ++

2 - AA - MF - 35+ - none ++

2 - AA - MM - 35+ - none ++ One man took a photo

2 - AAA - MFF - 70+ - none ++

6 - A - F - 40+ - none ++

3 - AAAA - MFMF - 50+ - none ++

4 - AA - FF - 45+ - dog ++

Same man from pilot came by and repeated that he did not want to be filmed and that I need a permit to film on the public road. He said I should remove the cameras if I don't use them or cover them with some tape so people don't get the feeling they are being recorded.

## DAY 6

Date: 11-11-2021 (Thursday)

Garbage bot condition

Time: 12:05 - 13:35

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**Behavior - Composition - Gender - Estimated age - Pet ++ Comments**

4 - AA - FF - 25+ - none ++

4 - AA - MF - 65+ - none ++

4 - AA - MF - 65+ - none ++

3 - AA - MF - 50+ - none ++

4 - AAA - MMM - 35+ - none ++

4 - AAA - MFF - 45/45/65 - none ++

6 - A - M - 45+ - none ++

4 - A - M - 35+ - dog ++

4 - A - F - 35+ - none ++

4 - AA - FF - 25+ - none ++

3 - AA - MF - 35/55 - none ++

4 - A - F - 25+ - none ++

3 - A - M - 25+ - none ++

4 - A - F - 70+ - none ++

## DAY 7

Date: 18-11-2021 (Thursday)

Control condition

Time: 12:00 - 13:30

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**Behavior - Composition - Gender - Estimated age - Pet ++ Comments**

2 - AA - MF - 65+ - none ++

4 - A - F - 35+ - none ++

4 - AA - MF - 65+ - none ++

4 - A - F - 65+ - none ++

3 - A - M - 35+ - none ++

2 - AA - MF - 65+ - none ++

4 - A - F - 45+ - none ++

3 - AA - MF - 50+ - none ++

3 - A - M - 35+ - none ++

4 - A - M - 35+ - none ++

4 - A - M - 35+ - none ++

3 - A - M - 35+ - none ++

4 - AA - MF - 35+ - none ++

4 - AA - FF - 25+ - dog ++

4 - A - F - 25+ - dog ++

2 - AA - MF - 65+ - none ++

2 - AA - MF - 45+ - none ++

4 - A - F - 35+ - none ++

3 - A - M - 25+ - none ++

4 - A - F - 50+ - none ++

2 - AA - MF - 35+ - - none ++ Took a photo

4 - A - M - 35+ - none ++

4 - AA - MF - 50+ - none ++

4 - AA - MF - 35+ - none ++

2 - AA - MF - 70+ - none ++

4 - AA - MF - 45+ - none ++

3 - AA - MF - 35+. - none ++

2 - AA - MF - 35+ - none ++

4 - AA - MF - 35+ - none ++

## DAY 8

Date: 19-11-2021 (Friday)

Garbage bot condition

Time: 12:10 - 13:40

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**Behavior - Composition - Gender - Estimated age - Pet ++ Comments**

4 - AA - MF - 65+ - none ++

4 - A - F - 35+ - none ++

4 - AA - FF - 40+ - none ++

4 - A - M - 45+ - none ++

3 - A - F - 45+ - dog ++

4 - A - M - 45+ - none ++

4 - AA - FF - 35+ - none ++

4 - A - F - 35+ - dog ++

4 - AA - MF - 35+ - none ++

4 - AA - FF - 25+ - none ++

4 - AA - MF - 45+ - none ++

4 - A - M - 50+ none ++

4 - AA - MF - 50+ - none ++

4 - AA - MF - 45+ - none ++

5 - A - M - 55+ - none ++

2 - A - M - 65+ - none ++

4 - A - M - 50+ - none ++

4 - A - M - 45+ - none ++

4 - A - M - 45+ - none ++

2 - A - M - 45+ - none ++

4 - A - M - 45+ - dog ++

4 - AA - MF - 45+ - none ++

4 - AA - MM - 25/45 - none ++

4 - AA - FF - 45+ - none ++

4 - A - F - 35+ - none ++

2 - AA - MF - 65+ - none ++

4 - AA - MM - 45+ - none ++

4 - AA - FF - 35+ - none ++

4 - AA - MF - 25+ - none ++

4 - A - M - 50+ - none ++

4 - A - M - 35+ - none ++ Calling someone on the phone

4 - A - M - 25+ - none ++

4 - A - M - 45+ - none ++

3 - A - M - 65+ - none ++

3 - AA - MF - 35+ - none ++

4 - AA - FF - 30+ - none ++

4 - AA - MF - 35+ - none ++

4 - AA - MF - 35+ - none ++

## DAY 9

Date: 22-11-2021 (Monday)

Garbage bot condition

Time: 12:05 - 13:35

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Behavior - Composition - Gender - Estimated age - Pet ++ Comments

4 - A - F - 25+ - none ++

4 - A - F - 30+ - none ++

4 - AA - MF - 30+ - none ++

2 - AA - MF - 45+ - none ++

4 - AA - FF - 50+ - dog ++

4 - AA - MF - 45+ - none ++

4 - A - F - 25+ - none ++

3 - AAAA - MFMF - 50+ - none ++

4 - AA - MF - 60+ - none ++

4 - AA - MF - 40+ - none ++

4 - A - F - 35+ - dog ++

1 - CC - MM - 8/8 - none ++

4 - A - F - 70+ - none ++

4 - A - F - 35+ - none ++

2 - A - M - 60+ - none ++

4 - A - M - 45+ - dog ++

5 - A - M - 35+ - none ++

4 - AA - MF - 50+ - none ++



4 - AA - FF - 30+ - dog ++  
4 - AA - MF - 65+ - none ++  
4 - AA - MF - 50+ - none ++  
4 - AA - MF - 60+ - none ++  
4 - A - M - 60+ - dog ++  
4 - AA - MF - 40+ - none ++  
4 - AA - MF - 50+ - none ++  
4 - AA - MF - 60+ - none ++  
4 - AA - MF - 45+ - none ++  
4 - A - F - 30+ - dog ++  
4 - AA - FF - 30+ - none ++  
4 - A - F - 65+ - none ++  
4 - AA - MF - 50+ - none ++  
4 - AA - MF - 35+ - none ++  
4 - AA - FF - 35+ - none ++  
4 - A - F - 35+ - dog ++  
4 - AA - MF - 60+ - none ++  
4 - A - F - 40+ - dog ++  
4 - A - F - 35+ - none ++  
4 - A - F - 25+ - none ++  
4 - A - M - 35+ - none ++  
4 - A - F - 30+ - none ++  
4 - A - M - 45+ - dog ++  
4 - AA - FF - 45+ - none ++

4 - A - M - 40+ - none ++

4 - A - M - 45+ - none ++

4 - A - M - 35+ - none ++

4 - A - M - 65+ - none ++

4 - A - M - 30+ - dog ++

4 - AA - MF - 30+ - dog ++

4 - AA - FF - 30+ - dog ++

4 - A - M - 35+ - none ++

4 - AA - FF - 35+ - none ++

## DAY 10

Date: 24-11-2021 (Wednesday)

Control condition

Time: 12:05 - 13:35

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**Behavior - Composition - Gender - Estimated age - Pet ++ Comments**

4 - A - M - 50+ - none ++

2 - A - F - 30+ - none ++ Took a photo

3 - A - F - 50+ - none ++

2 - AA - FF - 25+ - dog ++

4 - A - F - 70+ - none ++

4 - A - M - 50+ - none ++

3 - A - F - 50+ - none ++

2 - AA - MF - 35+ - none ++

4 - A - F - 40+ - none ++

2 - AAA - MFF - 70+ - none ++

2 - AA - MF - 70+ - none ++

2 - A - M - 70+ - none ++

2 - C - M - 14 - none ++

3 - A - F - 40+ - none ++

3 - AA - MF - 40+ - none ++

4 - A - F - 35+ - none ++

3 - AA - MM - 35+ - none ++

## DAY 11

Date: 07-12-2021 (Tuesday)

Control condition

Time: 12:00 - 13:20

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Behavior - Composition - Gender - Estimated age - Pet ++ Comments

3 - AAA - FFF - 35+ - none ++

4 - AA - MF - 50+ - none ++

3 - AA - FF - 25+ - none ++

4 - A - F - 30+ - none ++

4 - A - F - 30+ - dog ++

4 - AA - FF - 30+ - none ++

3 - AAAAA - MMMFF - 35+ - none ++

4 - AA - FF - 35+ - none ++

4 - AA - MF - 70+ - dog ++

2 - AC - MM - 35/8 - dog ++

2 - A - M - 60+ - none ++

3 - AA - FF - 35+ - none ++

4 - A - F - 35+ - dog ++

3 - AA - MF - 70+ - none ++

4 - A - F - 25+ - none ++

4 - A - F - 70+ - none ++

3 - A - M - 40+ - none ++

3 - AA - MF - 45+ - none ++

4 - AA - MF - 30+ - none ++

3 - A - M - 30+ none ++

4 - A - M - 40+ - none ++

3 - A - F - 40+ - none ++

4 - A - F - 30+ - none ++